GEOMICROBIOLOGY

Volume 7, Number 1/2
1989

Table of Contents

Special Issue on Deep Subsurface Microbiology

Foreward

Introductory Comments
W. C. Ghiorse & F. J. Wobber 1

Geology and Hydrology of the Deep Subsurface Microbiology Sampling Sites at the Savannah River Plant, South Carolina
K. A. Sargent & C. B. Fliermans 3

Distribution of Aerobic Bacteria, Protozoa, Algae, and Fungi in Deep Subsurface Sediments
J. L. Sinclair & W. C. Ghiorse 15

Numbers, Diversity, and Morphological Characteristics of Aerobic, Chemoheterotrophic Bacteria in Deep Subsurface Sediments From a Site in South Carolina
D. L. Balkwill 33

Lithotrophic and Heterotrophic Bacteria in Deep Subsurface Sediments and Their Relation to Sediment Properties
J. K. Fredrickson, T. R. Garland, R. J. Hicks, J. M. Thomas, S. W. Li & K. M. McFadden 53

Aerobic Metabolic Potential of Microbial Populations Indigenous to Deep Subsurface Environments
R. J. Hicks & J. K. Fredrickson 67

Microbial Activities in Deep Subsurface Environments
T. J. Phelps, E. G. Raione, D. C. White & C. B. Fliermans 79

Aerobic and Anaerobic microbial Activity in Deep Subsurface Sediments from the Savannah River Plant
E. L. Madsen & J. M. Bollag 93

Denitrification in Deep Subsurface Sediments
A. J. Francis, J. M. Slater, & C. J. Dodge 103

Anaerobic Metabolic Processes in Deep Terrestrial Subsurface
R. E. Jones, R. E. Beeman, & J. M. Suflita 117

Acknowledgments 131

Abstracted and/or indexed in: Bioscience Information Service; Chemical Abstracts Service; Current Awareness in Ecological Sciences; Current Contents/Agriculture, Biology & Environmental Sciences; Current Contents/Life Sciences; Ecological Abstracts; Geographical Abstracts; International Development Abstracts; ISI/Geo Sci Tech; Microbiology Abstracts; Science Citation Index.

Taylor & Francis
New York • Philadelphia • Washington, D.C. • London

GEOMICROBIOLOGY

Volume 7, Number 3
1989

Table of Contents

Distribution of Inorganic Species in Two Antarctic Cryptoendolithic Microbial Communities
Carl G. Johnston & J. Robie Vestal 137

Effects of Oil Reservoir Conditions on the Production of Water-Insoluble Levan by *Bacillus licheniformis*
J. Akit Ramsay, D. G. Cooper, & R. J. Neufeld..... 155

Methanogenesis and Sulfate Reduction in Timber and Drainage Water from a Gold Mine
Linda D. Abraham, Kenneth Westlake, Roderick I. Mackie, John F. Putterill, & Albin A. W. Baecker 167

Possible Nonanthropogenic Origin of Two Methanogenic Isolates from Oil-Producing Wells in the San Miguelito Field, Ventura County, California
Thomas K. Ng, Paul J. Weimer, & Len J. Gawel..... 185

Book Review: *Metal Ions and Bacteria* by Terrance J. Beveridge and Ronald J. Doyle
Henry L. Ehrlich 193

Book Review: *Traces of Bygone Biospheres* by A. V. Lapo
Henry L. Ehrlich 193

Further Readings in Geomicrobiology 195

Meeting Announcement..... 203

Errata 205

Abstracted and/or indexed in: Bioscience Information Service; Chemical Abstracts Service; Current Advances in Ecological Sciences; Current Contents/Agriculture, Biology & Environmental Sciences; Current Contents/Life Sciences; Ecological Abstracts; Geographical Abstracts; International Development Abstracts; ISI/Geo Sci Tech; Microbiology Abstracts; Science Citation Index.

Taylor & Francis
New York • Bristol, PA • Washington, DC • London

GEOMICROBIOLOGY

Volume 7, Number 4
1989

Contents

Acknowledgment iii

Pigment Stratigraphy and Trophic Status: An Evaluation of Radionuclide-Dated Lacustrine Sediment
C. L. M. Steenbergen, G. W. Berger, H. J. Korthals, & H. Verdouw 207

Evaluation of Deep Subsurface Sampling Procedures Using Serendipitous Microbial Contaminants as Tracer Organisms
Ralph E. Beeman & Joseph M. Suflita 223

Precipitation of Iron in Windowpane Oyster Shells by Marine Shell-Boring Cyanobacteria
Chandralata Raghukumar, V. P. C. Rao, & S. D. Iyer 235

Cyanobacterially Deposited Speleothems: Subaerial Stromatolites
Guy Cox, Julia M. James, Keith E. A. Leggett, & R. Armstrong L. Osborne 245

Porewater Mixing by Microorganisms, Monitored by a Radiotracer Method
P. Östlund, R. O. Hallberg, & L. Hallstadius 253

Further Reading in Geomicrobiology 265

Meeting Announcement 273

Abstracted and/or indexed in: Bioscience Information Service; Chemical Abstracts Service; Current Advances in Ecological Sciences; Current Contents/Agriculture, Biology & Environmental Sciences; Current Contents/Life Sciences; Ecological Abstracts; Geographical Abstracts; International Development Abstracts; ISI/Geo Sci Tech; Microbiology Abstracts; Science Citation Index.

Taylor & Francis
New York • Bristol, PA • Washington, DC • London